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| <i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i> | | | |
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File: PGPB

Jul 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030125782

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030125782 A1

TITLE: Methods for the regeneration of bone and cartilage

PUBLICATION-DATE: July 3, 2003

US-CL-CURRENT: 607/88; 604/20, 607/50APPL-NO: 10/ 299042 [PALM]

DATE FILED: November 15, 2002

RELATED-US-APPL-DATA:

Application is a non-provisional-of-provisional application 60/335727, filed November 15, 2001,

Application is a non-provisional-of-provisional application 60/341464, filed December 17, 2001,

Application is a non-provisional-of-provisional application 60/344932, filed December 21, 2001,

Application is a non-provisional-of-provisional application 60/354007, filed January 31, 2002,

RELATED APPLICATION INFORMATION

[0001] This application claims priority under 35 U.S.C. .sctn.119(e) to U.S. Provisional Application Serial No. 60/335,727, filed Nov. 15, 2001, U.S. Provisional Application Serial No. 60/341,464, filed Dec. 17, 2001, U.S. Provisional Application Serial No. 60/344,932, filed Dec. 21, 2001, and U.S. Provisional Application Serial No. 60/354,007, filed Jan. 31, 2002, and also claims priority under 35 U.S.C. .sctn.120 to U.S. patent application Ser. No. 10/287,432, filed Nov. 1, 2002, the disclosures of which are hereby incorporated by reference in their entireties.

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File: PGPB

Jul 3, 2003

DOCUMENT-IDENTIFIER: US 20030125782 A1

TITLE: Methods for the regeneration of bone and cartilage

Detail Description Paragraph (38):

[0068] The light therapy methods as described herein can also be advantageously used in combination with gene therapy to regenerate bone and cartilage. For example, as described in U.S. Pat. No. 6,143,878 (which is herein incorporated by reference herein in its entirety), DNA sequences of the Sox-9 and SOX-9 genes have been isolated and identified and the gene products thereof linked to the processes of osteogenesis and chondrogenesis. Such sequences, or recombinant proteins encoded by and generated from gene sequences such as these or those having similar biological effects, can be used in combination with the light therapy methods described herein to regenerate bone or cartilage. More specifically, an isolated DNA molecule including such sequences, or the recombinant proteins, or both in combination, can be administered to a patient in need of bone or cartilage regeneration, followed by light therapy as described above to facilitate the process of bone or cartilage regeneration.